Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) <u>A</u> method for processing video data for display on a display device having a plurality of luminous elements <u>comprising:</u>

[[by]] applying a dithering function to at least part of said video data to refine the grey scale portrayal of video pictures of said video data, ~~said method comprising the steps of:~~

computing at least one motion vector from said video data, and

changing <u>at least one of</u> the phase, amplitude, spatial resolution [[and/or]] <u>and</u> temporal resolution of said dithering function in accordance with said at least one motion vector when applying the dithering function to said video data.

2. (Currently Amended) <u>The</u> method according to claim 1, wherein said dithering function includes two spatial dimensions and one temporal dimension.

3. (Currently Amended) <u>The</u> method according to claim 1, wherein said dithering function includes the application of a plurality of masks.

4. (Currently Amended) <u>The</u> method according to claim 1, wherein said applying of said dithering function is based on single luminous elements ~~comprise called cells~~ of said display device.

5. (Currently Amended) <u>The</u> method according to claim 1, wherein said dithering function is a 1-, 2-, 3- [[and/or]] <u>or</u> 4- bit dithering function.

6. (Currently Amended) The method according to claim 1, wherein said at least one motion vector is defined for each pixel or cell individually.

7. (Currently Amended) The method according to claim 1, wherein said at least one motion vector has two spatial dimensions.

8. (Currently Amended) A device for processing video data for display on a display device having a plurality of luminous elements ~~including~~ comprising: dithering means for applying a dithering function to at least a part of said video data to refine the grey scale portrayal of video pictures of said video data, wherein, [[it]] said dithering means comprises: motion estimations means connected to said dithering means for computing at least one motion vector from said video data, wherein at least one of the phase, amplitude, spatial resolution [[and/or]] and temporal resolution of said dithering function is changeable in accordance with said at least one motion vector.

9. (Currently Amended) The device according to claim 8, wherein said dithering function used by said dithering means includes two spatial dimensions and a temporal dimension.

10. (Currently Amended)   The device according to claim 8, wherein said dithering function of said dithering means is based on a plurality of masks.

11. (Currently Amended)   The device according to claim 8, wherein said dithering function of said dithering means is based on single luminous elements called cells of said display device.

12. (Currently Amended)   The device according to claim 8, wherein said dithering means is able to process at least one of a 1-, 2-, 3- [[and/or]] and 4-bit dithering function.

13. (Currently Amended)   The device according to claim 8, wherein said at least one motion vector is definable for each pixel individually by said motion estimation means.

14. (Currently Amended)   The device according to claim 8, wherein said at least one motion vector includes two spatial dimensions.

15. (Currently Amended)   The device according to claim 8, further including gamma function means connected to. said dithering means, so that the input signals of said dithering means are precorrected by a gamma function.

16. (Currently Amended)   The device according to claim 8, further including controlling means connected to said dithering means for controlling said dithering means temporally in dependence of frames of said video data.